PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY				
To: GARY S. WILLIAMS PENNIE & EDMONDS LLP 1155 AVENUE OF THE AMERICAS	PCT			
NEW YORK, NY 10036 REFERRED TO TO TO TO TO THE COLUMN A	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION			
NOV 0 9 2001 Pennie & Edmonds	(PCT Rule 44.1)			
O.K. for filing	Date of Mailing (day/month/year) 05 NOV 2001			
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 bel w			
9840-053-228				
International application No. PCT/US01/15545	International filing date (day/month/year) 15 MAY 2001			
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA Amend Prior to Pub 1/5/02 wi CK US IDS Rebs 25/02 wi				
1. X The applicant is hereby notified that the international search report has been established and is transmitted herewith.				
Filing of amendments and statement under Article 19: The applicant is entitle:, if he so wishes, to amend the claims of the international application (see Rule 46):				
When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.				
Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35				
For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.				
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Further action(s): The applicant is reminded of the following:				
Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in rules 90 bis 1 and 90 bis 3, respectively, before the completion of the technical preparations for international publication.				
Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).				
Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.				
Name and mailing address of the ICA (ICC	Authorized officer (A)			
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231	Authorized officer less tery despet			
Facsimile No. (703) 305-3230	Telephone No. (703) 308-0956			

Form PCT/ISA/220 (July 1998)*

(See notes on accompanying sheet)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 9840-053-228	FOR FURTHER ACTION	see Notification of (Form PCT/ISA/220	Transmittal of Inter)) as well as, where a	mational Search Report pplicable, item 5 below.	
International application No.	International filing dat	e (day/month/year)	(Earliest) Priority 1	Date (day/month/year)	
PCT/US01/15545	15 MAY 2001		19 MAY 2000	•	
Applicant THE REGENTS OF THE UNIVERSIT	TY OF CALIFORNIA				
This international search report has been according to Article 18. A copy is being	ng transmitted to the Inter	national Bureau.	nthority and is trans	mitted to the applicant	
This international search report consist X It is also accompanied by a companied	 _		eport.		
Basis of the report a. With regard to the language, the language in which it was filed the international search was Authority (Rule 23.1(b)).	, unless otherwise indicated	d under this item.			
b. With regard to any nucleotide was carried out on the basis o		nce disclosed in the i	nternational applicati	on, the international search	
contained in the internation	al application in written f	orm.			
filed together with the international application in computer readable form.					
furnished subsequently to this Authority in written form.					
furnished subsequently to the	nis Authority in computer	readable form.			
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the					
	the statement that the information recorded in computer readable form is identical to the written sequence listing has been				
2. Certain claims were found	Certain claims were found unsearchable (See Box I).				
3. Unity of invention is lack	Unity of invention is lacking (See Box II).				
4. With regard to the title,					
X the text is approved as sub-	mitted by the applicant.	•			
the text has been established	d by this Authority to rea	ad as follows:			
5. With regard to the abstract,					
the text is approved as sub	mitted by the applicant.				
x the text has been establishe Box III. The applicant may search report, submit comm	, within one month from				
6. The figure of the drawings to be p	oublished with the abstrac	t is Figure No. 1	_		
X as suggested by the applica	nt.		Γ	None of the figures.	
because the applicant failed	l to suggest a figure.		L	J - tono or die riguios.	
because this figure better c	haracterizes the inventior	ı .			

INTERNATIONAL SEARCH REPORT

International application No. PCT/US01/15545

B x III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

An optical micro-electromechanical device (20) having a substrate (23) and a mirror assembly suspended above the substrate. The mirror assembly includes a torsional beam (24) and a cantilever (26). The cantilever includes a first end (28) attached to the torsional beam and a second end (30) for supporting a mirror head (32). A connector (34) is attached to the torsional beam and a counterweight (36) is attached to the connector.

INTERNATIONAL SEARCH REPORT

Form PCT/ISA/210 (second sheet) (July 1998)*

International application No. PCT/US01/15545

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) :G02B 5/08, 7/182 US CL :359/846, 872				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
U.S. : 359/846, 847, 872				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched NONE				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) NONE				
C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No.				
US 5,115,351 A [MIYAWAKI et al] 19 May 1992 (19-05-92), see 1-3,7-11 entire document.				
US 5,115,354 A [IWASE] 19 May 1992 (19-05-92), see entire 1-3,7-11 document.				
US 5,535,047 A [HORNBECK] 09 July 1996 (09-07-96), see entire document.				
X US 5,760,947 A [KIM et al] 02 June 1998 (02-06-98), see entire document.				
Further documents are listed in the continuation of Box C. See patent family annex.				
Special categories of cited documents: A" document defining the general state of the art which is not considered to be of particular relevance Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
E" earlier document published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be				
document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" considered novel or can It be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be				
document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art				
P" document published prior to the international filing date but later than '&' document member of the same patent family the priority date claimed				
Date of the actual completion of the international search Date of mailing of the international search report				
19 SEPTEMBER 2001 05 NOV 2001				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Authorized officer PICKY D. SHAFTER				
Washington, D.C. 20231 RICKY D. SHAFER Telephone No. (703) 305-3230				

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty and of the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

The claims only.

The description and the drawings may only be amended during international preliminary examination under Chapter IL.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confounded with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

-The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate; in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

NOTES TO FORM PCT/ISA/220 (continued)

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims : "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or

"Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

- 4. [Where various kinds of amendments are made]: Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

The statement should be brief, it should not exceed 500 words if in English or if translated into English.

It should not be confounded with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading. preferably by using the words "Statement under Article 19(1)."

It should not contain any disparaging comments on the international search report or the relevance of citations contained in their report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

In what language?

The amendments must be made in the language in which the international application is published. The letter and any statement accompanying the amendments must be in the same language as the international application if that language is English or French; otherwise, it must be in English or French, at the choice of the applicant.

Consequence if a demand for international preliminary examination has already been filed?

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase?

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

